

Department of Energy

nemorand

DATE:

AUG 2 1994

REPLY TO ATTN OF:

EM-421 (W. A. Williams, 427-1719)

Elimination of the Robbins & Myers Site, Springfield, Ohio

SUBJECT:

TO:

The File

I have reviewed the attached elimination recommendation and the original historical records for the Myers & Robbins facility in Springfield, Ohio. I have determined that there is little likelihood of radioactive contamination at these sites. The only record of activity at this site by Department of Energy predecessors is an equipment test of a pump in March 1975. This test involved limited amounts of radioactive materials and there was a serious effort to decontaminate the equipment at the conclusion of the tests.

Based on the above, the Myers & Robbins site in Springfield, Ohio, is hereby eliminated from further consideration under the Formerly Utilized Sites Remedial Action Program.

W. Alexander Williams, PhD

Designation and Certification Manager Off-Site/Savannah River Program Division

Office of Eastern Area Programs

Office of Environmental Restoration

Attachment

bcc:

Booz, Allen and Hamilton, Inc.

Distribution:

EM-40 (2) EM-42 (3) Williams Reader

427-1721:8/1/94:elim10.waw EM-421:williams:djn:

BOOZ-ALLEN & HAMILTON INC.

4330 EAST WEST HIGHWAY • BETHESDA, MARYLAND 20814-4455 • TELEPHONE: (301) 951-2200 • FAX: (301) 951-2255 ·

July 28, 1994 16600-072-114-010-051

Mr. Albert Johnson U.S. Department of Energy (EM-421) Quince Orchard Building Gaithersburg, Maryland 20585

Subject: Contract No. DE-AC01-92EW40006

Historical Records from Fernald on the Robbins and

Myers site in Springfield, Ohio

Dear Mr. Johnson:

We have received the information from Fernald regarding the Robbins and Myers site in Springfield, Ohio. We have reviewed this information to assess the likelihood that there may be significant quantities of radioactive at this site, per your instructions. A copy of the Fernald information, our review of this information, and a disk are attached.

Based on our review of the Fernald information, we find there is little likelihood that there are quantities of radioactive materials above DOE guidelines at this site.

If you have any questions, please contact me at (301) 916-7258.

Sincerely,

John L. Russell BA&H Team Leader

cc: A. Engebretson C. Aldrich FUSRAP files



P.O. Box 398704 Cincinnati, Ohio 45239-8704 (513) 738-6200

July 27, 1994

U. S. Department of Energy Fernald Environmental Management Project Latter No. C:CRU4(OR):94-0313

W. Alexander Williams, Ph.D. Manager Certification and Verification FUSRĂP U.S. Department of Energy Quince Orchard Building Gaithersburg, MD 20585

Dear Mr. Williams:

INFORMATION REGARDING ROBBINS & MYERS CO.

The requested information regarding Robbins & Myers is enclosed. This issue has been discussed with DOE-FN and direction was given to forward the information to you.

Sincerely.

Dennis Nixon

- Assistant CRU4 Director

RAV:slk Enclosure

C:

J. R. Craig, DOE-FN W. S. Pickies

J. W. Reising

W. G. Tope R. A. Vogel

File Record Storage Copy 102



FACSIMILE LEAD SHEET

Including Lead Sheet

7/28/94
DATE:
TO: Jack Russoll
COMPANY NAME: Bay aller

FAX NO. TO BE CALLED: 301 914 7277

(513)

PROJECT MAME FERNALD ENVIRONMENTAL MGMT CONTRACT NO .:

DE-AC05-920R21972

MESSAGE

SUBJECT:

File Record Storage Copy 106.4.



INTEROFFICE MEMORANDUM

Ter D

Dennis Nixon

Deter

July 27, 1994

Assistant CRU4 Director Operation & Remediation

Loostone

Springdale, MS 82-2

Reference:

Fronti

Robert A. Vogel Reversion Remediation

FERMICO #1

M:CRU4(OR):94-0332

Support Engineering

Logedon

Springdale, MS 82-2

Client:

DOE DE-AC05-920R21972

Extension: 648-6625

-

INFORMATION FOR DOE-HO REGARDING ROBBINS & MYERS

CO.

c:

File Record Storage Copy 106.4.18.3

Wilf Pickles

Johnny Reising, DOE-FN

Bill Tope

The search for information regarding Robbins & Myers Co. (Attachment 1) of Springfield, Ohio has been completed. The attached (Attachment 2) IH&R Department Monthly Report for March 1975 (page 3) explains and defines the issue. The intention is that this monthly report be provided to W. Alexander Williams DOE-Germantown.

RAV:slk Attachment (2)

PO-P-3834 (07/06/84)

ATTACHMENT 1-

ENCLOSURE 1

NATIONAL LEAD COMPANY OF OHIO

r. u JCK 29158

CINCINHATI, ONIO 45239

PHONE: AREA COOC: \$13-778-1131.

DCT 12 1976

5866

Hr. H. T. W. schor, Director Urenius Assichment Operations Division Oak Riege (purations Office U. S. Emergy Research & Development Adm. P. O. 1. Ouk Allies, Francisce 37830

Dear it. tistcher:

ERDA SESHEVEY PROGRAM

Ref.: Jecter, Fletcher to Audia, 9/27/76, same subject

Per whic raquest, we have reviewed our contract files, in addition to other: sources, for the names of companies who have performed work at our fequest. It us, must include material shipped from here on a production order from the AEC or JRBA.

Timutification as to type of agreement and type of work is listed. The dates are only guidelines and may not include every time material was processed:

very small test samples (such as contaminated MgF3) were sent out for possible sale to various companies. They are also excluded.

If you desire other information, please let us know.

S. F. Audia

Manager

CEP/thg

Attachment

cc: U. J. Adams

C. E.Polson

H. D. Flotcher

W. J. Grannen

Central Files

L. H. Lavy

R. C. Hestherion

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PROCESSORS OF RADIOACTIVE MATERIALS - WORK REQUESTED BY MLO

COMPANY NAME AT TIME OF REQUEST	LOCATION	APPROX.	CODE
Ulegheny-Ludium Steel Corp. (4)	Watervliet, N. Y.	3/52	PRI.
werican Machine & Foundry (4)	Brooklyn, N. Y.	10/52, 7/53,	TH-ICE.
andis Machine Tool Co. (2)	Waynesboro, /s.	9/52	TH -
lechlehem Sceel Corp. (Lacksvenne) (4)	Buffalo, M. Y.	2/52	PM
iesley - Wells (2)	5. Beloit, Wisc.	5/53	TR/
orr Carp. (Door Oliver) (I)	Westpoint, Conn.	1/55	TO ~
regon Bureau of Mines (3) is the force of. 5.	Albany, Oregoo-	10/54 - 6/55.	PM V
uperior Sceel Co. (2)	Carnegie, Pa.	12/55-1/57	. PH
rias Steels, Ltd., (2)	Welland, Ont.	2/57, 11/57	IN.
recur Research Foundation (1)	Chicago, Ill.	9/57	TO:-
lbecraft Laboratories (1)	Oxford, Ohio	3/57	PM /
hambersburg Engr. Co. (2)	Chambersburg, Ps.	3/57	Di 🗸
nomville Iron Co. (1), (2)	Knowville, Ky.	10/57 - 10/58	•. /
odbeilmiac Corp. (2)	Chicago, Ill.	2/57	TC:-
ssociated Aircraft Tool & Hfg. Co. (1)	Mamilton, Ohio	2/56 - 3/57	24.
agnus Metals (1)	Cincinnati, Ohio	12/57, 3/58s	אינו
imonds Saw & Steel Co. (1)	Lockport, N. Y.	7/52 - 7/57	PM w'
acercoun Arsenal (3)	Vatertown, Mass.	11/37	TK.P
itto Rare Metals Co. (1)	Cannonsburg, Pa.	8/34-8/56%	70
hio State University (1)	Columbus, Ohio	12/56, 5/69-	TC-C
ube Reducing Corp. (2)	Wallington, B.J.	1/58	17:17
merican Bearing Corp. (1)	Indianapolis, Ind.	7/52	TH: <
pax-Hagnethermic Corp. (2)	Youngstown, Ohio	10/58, 11/61	TH -
estinghousa Electric (2)	Bloomfield, N. J.	5/58, 6/597	11
regon Metallurgical Corp. (1)	Albany, Oregon	11/58	717

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DAPANY NAME AT TIME OF REQUEST	LOCATION	APPROX.	CODE
. S. Steel, Hat'l Tube Div. (2)	HcKeesport, Ps.	4/39, 2/60	THE
utton, Steele and Steele (2)	Dellas, Texas	11/59	IH.
orth Carolina State College (1)	Chapel Hill, N. C.	1958 454,	10.
inter Douglas Plt. of Bridgeport Brass (2)	Riversida, Calif.	8/59	TK.
idgeport Brass Co. (4)	Adrian, Mich.	2/59	PH 🗸
ecrolite Corp. (2)	St. Louis, No.	9/59	TOC
ald Machine Co. (2)	Worchester, Mass.	3/60, 5/60	TH
bois Chem. (2)	Cincinnaci, Ohio	5/60	TH
oneer Division, Bendix Aviation (2)	Davenport, Ioua	6/60: 9/60	TC
erican Machine & Metals, Inc. (2)	E. Moline, Ill.	5/60	70 ×
suffer Hersis, Inc. (2)	Richmond, Calif.	4/61	TH /
naca Gun Co. (2)	Ithaca, N.Y.	9/60, 8/61 11/61	ראו י
1. LeBlond Mach. Tool Co. (2)	Cincinnati, Ohio	11/61	IH ✓
rican Hfg. of Texas (2)	Ft. Worth, Tex.	7/61, 8/61, 8/62; 4/63	TH <
ason Works (2)	Rochester, N. Y.	10/51	TH /
d Machinery & Chem. Corp. (2)	Nitro, W. Va.	1962	TOC ~
ver Corp. (2)	Bactlecreek, Hich.	4/62	TO:
telle Memorial Inst. (4)	Columbus, Ohio	12/62	TH**
(anal Lead Co., Nuclear Division (3)	Albany, R.Y.	7/62	T3 4-
ersity of Florida (1)	Gainesville, Fla.	10/63 - 11/69	オオン
:inneti Milling Machine (2)	Cincinnati, Ohio	10/63	Th:
England Lime Co. (2)	Canaan, Conn.	6/63	TOC -
. Mayes, Inc. (2)	Cranston, R. I.	1/64	TH 🗸
les Taylor & Sons (2)	Cincinnets, Ohio	B/64, 1/65	10 /

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COMPANY HAME AT TIME OF REQUEST	LOCATION	DATE CODE
Southern Research Institute (1)	Birmingham, Ala.	12/64, 9/65
University of Deaver Research_Inscitute (1)	Denver, Colo.	2/65 - TM-
New England Materials Lab., Inc. (2) (also called Teledyne Mat. Res.)	Medford, Hass.	1/63; 4/67
Tocco Reat Treating Co. (2)	Cleveland, Ohio	4/67; 2/682
Fenval, Inc. (2)	Ashlaud, Mass.	5/67: 11/67 TEX
Robbins & Hyers Co. (2)	Springfield, Ohio	1975 TOC

DDE: P - PRODUCTION QUANTITITES

T - TEST QUANTITIES .

C - CONTAMINATED MATERIAL (TBF, HgF2, SLUDGE)

H - RADIOACTIVE HETAL

O = OTHER TRAN HETAL (RADIDACTIVE)(UF4, ThO2)

* - CONTAMINATED SCRAF IRON

(1) = Sub-Concrect

(2) - Purchase Order

(3) = Interagency Agreement

(4) * Prime AEC Contract

	SUBCONTRACTOR/YENDOR	PERIOD OF OPERATION	PROCUREMENT INSTRUMENT	RADIGACTIVE HATERIAL INVOLVED
8.	Petrolite Corporation St. Louis, MO	September 1959	Purchase Order	Test Quantities of Contam- inated Material Other than Metal
9.	Rabbins & Myers Company Springfield, OH	1975	Purchase Order	Test Quantities of Contam- inated Material Other than Metal
io.	Charles Taylor & Soms Cincinnati, OH	August 1964 and January 1965	Purchase Order	Test Quantities of Contam- insted Material Other than Metal
11.	University of Denver Research Institute Denver, CO	February 1965	Subcontract	Test Quantities of Metal
12.	University of Florida Gainesville, FL	October 1963 - November 1969	Subcontract	Test Quantities of Metal

NUTES: Periods of Operation are approximate.

- (1) American Machine & Foundry was also a major DuPont subcontractor that did work in support of Savannah River Plant operations.
- (2) The only documents found indicate MLO Health & Safety Division was involvement with a polonium spill at this firm.
- (3) Documents found indicate that this firm operated under AEC Special Nuclear Naterial license during the period January 1958 through November 1962. Brantum metal containing 20% U-235 was authorized for use in the Corporation's Albany Plant for alloying uranium and zirconium metal.

April 4, 1978

IHLR DEPARTMENT MONTELY REPORT FOR MARCH 1975

R. C. Heatherton

M. W. Roback

Environmental Sampling - The following shows the January and February 1975 monthly average Boundary Station contaminant concentrations.

Period	x 10-14 halfml	x 10 ⁻¹⁴ µsi/ml	Eeta z 10-14 poi/mi	Particulates
Jamasy	1.05	1.07	4. 87	51"
Pebroary	0.64	0. 67	5.19	46
MPC	200	. 200	100, 000	40

Two examples for total fluoride were obtained at Boundary Station #2 during the month. They showed fluoride concentrations of 234 and 110 $\mu g/m^2$. There is no EFA limit for fluoride. The eight-hour TLV is 2000 $\mu g/m^2$.

One NO2 sample was obtained during March. The concentration of NO2 was 3.5 $\mu g/m^3$. The EPA limit for NO2 in ambient air is 100 $\mu g/m^3$.

inplant Sampling - Samples taken in Plant 4 on several days during the month showed the concemiration of RF was frequently above the eight-hour-TLV. Results have been reported to the Production Division.

Ammonia samples were taken in the Plant 4 dissociator room and the selevator. The concentration of NH₃ in the room was above the TLV. The concentration in the elevator was less than the TLV but high enough to be appropring to elevator passengers.

NO2 samples taken in the Refinery denitration area showed the concentration of NO2 in the air averaged 1200 $\mu g/m^2$. The TLV is 9000 $\mu g/m^2$.

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INS. DEPARTMENT MONTRLY REPORT FOR MARCH 1975
RE C. Heatherton
April 4, 1975

Stack: Sampling - The stack sampling pump on the Pilot Plant oxidation. furnace-was inspected and found to be incapable of drawing more than.

10 liters of air per minute through the filter. The stack velocity calls: for 30 lpm. A larger pump was installed and it would pull only 28 lpm. The cause of this deficiency appears to be the length of the tubing between: the pump and the filter head. A more powerful pump should be obtained or the pump will have to be moved closer to the filter. The Pilot Plant: has been asked to have a larger pump installed.

The only stack loss during March was 3.5 U kg from Plant 4 collector G4-5.

Respirator Program - A lecture on Respiratory Protective Equipment was: given for a group of first shift operators from the Refinery this mouth. Respirator fittings were performed on a total of 19 chemical operators.

Breathing Air Quality - Analysis of the breathing air sample obtained for March is shown below:

	% O8	& COS	CO (ppm)
Merch	20.8	0. 025	< 2 ppm
Limits	19.5 (min.)	0.1 (max.)	20 ppm

Moise - Two Bendix Roise Conimeters were received this month. The desimeters operate satisfactorily and tests showed reasonable agreement between "A Exposures" as measured with the documeter and as calculated from sound level readings obtained with the B &K Sound Level Meter. Preliminary analysis of some noise dose readings obtained in the Refinery on the denitration area pot deck shows % Exposures slightly in excess of: 100%, the maximum permissible daily dose.

Offsite Trips - On 1/5/75, I accompanied A. F. Pennak to the ERDA Weldon Spring site to collect water samples in connection with the effort to half the drainage from waste pits 1, 2, and 3. The samples will be analysed by the Bioassay Laboratory. Results will help determine the best location for blockage of the drainage pipes.

IMAR DEPARTMENT MONTHLY REPORT FOR MARCH 1975 R: C: Healberton April 4, 1975

Page-1

On 1/18/75, the testing of a Moyne pump at the Robbins & Myers,
Incorporated, plant in Springfield. Chio was monitored by D. A. Fuchs:
for adherence to Realth & Safety requirements. Plant & filter cake was:
pumped during the test and afterwards was flushed from the pump.
No rinse water reached the plant's sump. The pump was then dismantied:
and theroughly decontaminated. Samples indicated that the equipment:
was cleaned and decontaminated to its original state. All filter cake,
rinse water, plastic drop clathe, coveralis, gloves, rags, etc., were
drummed and returned to NLO.

K. N. Ross attended a specialty conference on continuous monitoring of stationary air pollution sources at St. Louis, Missouri, on 3/20-21.

Original signal by
12. W. B. B. W. X.
Chief of loc. Hysicas & Resimina
M. W. Boback

MWB/KNR/DAF/S

eq: R. C. Heatherton - 2